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**From:** Piro, Peter (DPH)  
**Sent:** Friday, January 28, 2011 10:14 AM  
**To:** Salemi, Charles (DPH); Lawler, Michael (DPH)  
**Cc:** Nassif, Julianne (DPH)  
**Subject:** GHB update

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

I derivatized GHB in varying concentrations (1-23 ppm) to simulate naturally occurring levels in wine. Using the normal 35:1 split, only the highest level integrated, meeting the 100,000 area count requirement. Lower concentrations did not integrate but were chromatographically visible, exceeding acquisition threshold requirement. Using an 80:1 split, the area count of the 1 mg/mL standard was reduced to slightly under 3 million. None of the dilutions integrated but all were still visible. BSTFA did successfully derivatize sugary liquids but the GHB response was noticeably reduced, hence, my concern for excessively altering the split ratio. We may have to consider using an internal standard to factor in run to run variations from tuning, injector suitability and variable injection volumes.